



## PATENT ABSTRACTS OF JAPAN

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**G09F 13/20**(21) Application number: **57216956**(71) Applicant: **CASIO COMPUT CO LTD**(22) Date of filing: **13.12.82**(72) Inventor: **INAGAKI YUKIO****(54) LIGHT-EMITTING DIODE****(57) Abstract:**

**PURPOSE:** To obtain the titled diode, the whole thickness thereof is thin, by pasting a metallic foil on one surface of a sheet to which a through-hole is formed, dividing the metallic foil into two at the central section of the through-hole, burying a P-N crystal body into the through-hole, each connecting a cathode and an anode set up to the crystal body to the divided metallic foils and sealing the through-hole with a resin.

**CONSTITUTION:** Adhesives 11 are applied on the back of the rectangular filmy sheet 10 consisting of the polyimide resin, and the through-hole 12 is punched at the central section of the sheet through punching work while being made larger than the size of the P-N crystal body 15 buried into the through-hole. The conductive foil 14 made of copper is attached to the adhesives 11 while being protruded in the longitudinal direction of the sheet 10, approximately the central section of the hole 12 is removed through etching, and the foil 14 is divided into 14a and 14b. The P-N crystal body 15, a lower surface thereof has a cathode electrode, is fixed to one foil 14a, and an anode electrode set up to the surface of the crystal body is connected to the other foil 14b by using a wire 21. The hole 12 is sealed with

the resin, and the whole is thinned and the diode is fitted to an electronic calculator, etc.

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